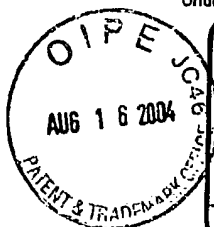


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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet 1 of 4

Complete If Known

Application Number 09/887,208
Filing Date _____
First Named Inventor CONLAN et al.
Group Art Unit _____
Examiner Name _____
Attorney Docket Number 56104576-23

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code ² (if known)			
<i>AS</i>	1	5,437,774		LAUTSEN	08/01/1995	/
	2	3,878,564		YAO et al.	04/22/1975	
	3	4,036,748		KNICKEL et al.	07/19/1977	
	4	4,045,337		KNICKEL et al.	08/30/1977	
	5	4,045,455		VOGEL	08/30/1977	
	6	4,069,215		ELFERT et al.	01/17/1978	
	7	4,115,225		PARSI	09/19/1978	
	8	4,123,342		AHLGREN	10/31/1978	
	9	4,174,439		RAUENBUSCH et al.	11/13/1979	
	10	4,196,304		NAUMANN	04/01/1980	
	11	4,204,929		BIER	05/27/1980	
	12	4,217,227		ELFERT et al.	08/12/1980	
	13	4,238,306		PERRY et al.	12/09/1980	
	14	4,238,307		PERRY et al.	12/09/1980	
	15	4,252,652		ELFERT et al.	02/24/1981	
	16	4,259,079		BLUM	03/31/1981	
	17	4,269,967		ELFERT et al.	05/26/1981	
	18	4,276,140		JAIN	06/30/1981	
<i>AS</i>	19	4,279,724		HEARN et al.	07/21/1981	
	20	4,299,677		VENKATASUBRAMANIAN et al.	11/10/1981	

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Examiner Initials*	Cite No. ¹	Foreign Patent Document ¹			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ³
		Office ³	Number ⁴	Kind Code ² (if known)				
<i>AS</i>	21	WO	97/14486		BAYER AKTIENGESELLSCHAFT	04/24/1997	/	
<i>AS</i>	22	WO	98/21384		BAYER AKTIENGESELLSCHAFT	05/22/1998		
<i>AS</i>	23	WO	98/43718		BAYER AKTIENGESELLSCHAFT	10/08/1998		

Examiner Signature

APhasg

Date Considered

9/23/04

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¹ Unique citation designation number. ² See attached Kinds of U.S. Patent Documents. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

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Sheet	2	of	4
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Application Number 09/887,208

Filing Date

First Named Inventor	CONLAN et al.
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Group Art Unit

Examiner Name _____

Attorney Docket Number	56104576-23
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U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No.¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code² (if known)			
ASB	24	4,322,275		JAIN	03/30/1982	
	25	4,362,612		BIER	12/07/1982	
	26	4,376,023		VENKATSUBRAMANIAN et al.	03/08/1983	
	27	4,381,232		BROWN	04/26/1983	
	28	4,383,923		ELFERT	05/17/1983	
	29	4,396,477		JAIN	08/02/1983	
	30	4,441,978		JAIN	04/10/1984	
	31	4,533,447		MELDON	08/06/1985	
	32	4,608,140		GOLDSTEIN	08/26/1986	
	33	4,661,224		GOLDSTEIN et al.	04/28/1987	
	34	4,673,483		MANDLE	06/16/1987	
	35	4,711,722		TOYOSHI et al.	12/08/1987	
	36	4,780,411		PIEJKO et al.	10/25/1988	
	37	4,897,169		BIER et al.	01/30/1990	
	38	4,963,236		RODKEY et al.	10/16/1990	
	39	5,043,048		MURALIDHARA	08/27/1991	
	40	5,080,770		CULKIN	01/14/1992	
	41	5,082,548		FAUPEL et al.	01/21/1992	
ASB	42	5,087,338		PERRY et al.	02/11/1992	

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Examiner
Signature

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Date _____

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9/23/04

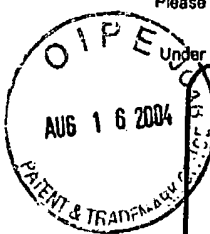
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>				Application Number	09/887,208
				Filing Date	
				First Named Inventor	CONLAN
				Group Art Unit	
				Examiner Name	A. PHASGE
Sheet	3	of	4	Attorney Docket Number	56104576-23

U.S. PATENT DOCUMENTS						
Examiner Initials ¹	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code ² (if known)			
1	43	5,096,547		KLOTZ et al.	03/17/1992	
	44	5,114,555		STIMPSON	05/19/1992	
	45	5,127,999		KLOTZ et al.	07/07/1997	
	46	5,160,594		HUFF et al.	11/03/1992	
	47	5,173,164		EGEN et al.	12/22/1992	
	48	5,185,086		KAALI et al.	02/09/1993	
	49	5,238,570		HUGL et al.	08/24/1993	
	50	5,277,774		SHMIDT et al.	01/11/1994	
	51	5,336,387		EGEN et al.	08/09/1994	
	52	5,340,449		SHUKLA	08/23/1994	
	53	5,352,343		BAILES et al.	10/04/1994	
	54	5,407,553		HERRON et al.	04/18/1995	
	55	5,420,047		BRANDT et al.	05/30/1995	
	56	5,441,646		HELLER et al.	08/15/1995	
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61	5,561,115		TENOLD	10/01/1996		
62	5,565,102		BRANDT et al.	10/15/1996		

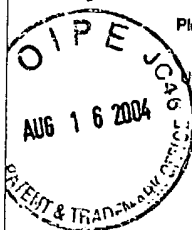
FOREIGN PATENT DOCUMENTS								
Examiner Initials ¹	Cite No. ¹	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Office ³	Number ⁴	Kind Code ⁵ (if known)				

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)		Application Number	09/887,208
		Filing Date	
		First Named Inventor	
		Group Art Unit	
		Examiner Name	
Sheet 4 of 4	Attorney Docket Number	56104576-23	

U.S. PATENT DOCUMENTS						
Examiner Initials ¹	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code ² (if known)			
AP	63	5,610,285		LEBING et al.	03/11/1997	
	64	5,662,813		SAMMONS et al.	09/02/1997	
	65	5,723,031		DURR et al.	03/03/1998	
	66	5,733,442		SHUKLA	03/31/1998	
	67	5,736,023		GALLAGHER et al.	04/07/1998	
	68	5,868,938		BOMER, deceased, et al.	02/09/1999	
	69	5,891,736		CHAPOTEAU et al.	04/06/1999	
	70	5,906,724		SAMMONS et al.	05/25/1999	
	71	5,938,904		BADER et al.	08/17/1999	
	72	5,986,075		DUBOSE et al.	11/16/1999	
	73	6,093,296		SOANE et al.	07/25/2000	
	74	6,117,297		GOLDSTEIN	09/12/2000	
	75	6,129,842		KOSTANIAN	10/10/2000	
	76	6,171,825		CHAN et al.	01/09/2001	
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	78	5,727,664		STOEY	06/1995	

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Examiner Initials ¹	Cite No. ¹	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Office ³	Number ⁴	Kind Code ⁵ (if known)				
AP	79	UK	2 118 975 A		Nishizawa	02/16/1983		
	80	WO	93/06475		DOW Chemical Co.	04/01/1993		
	81	EP	0 639 945 A2		Aligena AG	11/09/1989		
	82	DE	41 16 179 A1		Serva Feinbio-chemica GMBH & Co.	11/19/1992		
AP	83	EP	0 477 541 B1		Waters Investments Limited	08/23/1991		

Examiner Signature	<i>APhoo</i>	Date Considered	9/23/04
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)			Application Number	09/887,208	
			Filing Date		
			First Named Inventor		
			Group Art Unit		
			Examiner Name		
Sheet	4	of	14	Attorney Docket Number	56104576-23

U.S. PATENT DOCUMENTS					
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	65	5,662,813		SAMMONS et al.	09/02/1997
	66	5,723,031		DURR et al.	03/03/1998
	67	5,733,442		SHUKLA	03/31/1998
	68	5,736,023		GALLAGHER et al.	04/07/1998
	69	5,868,938		BOMER, deceased, et al.	02/09/1999
	70	5,891,736		CHAPOTEAU et al.	04/06/1999
	71	5,906,724		SAMMONS et al.	05/25/1999
	72	5,938,904		BADER et al.	08/17/1999
	73	5,986,075		DUBOSE et al.	11/16/1999
	74	6,093,296		SOANE et al.	07/25/2000
	75	6,117,297		GOLDSTEIN	09/12/2000
	76	6,129,842		KOSTANIAN	10/10/2000
	77	6,171,825		CHAN et al.	01/09/2001

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Examiner Initials ¹	Cite No. ¹	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY
		Office ³	Number ⁴	Kind Code ⁵ (if known)		

Examiner Signature	<i>A. Phasq</i>	Date Considered	9/23/04
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Form PTO-1449 (modified)

List of Patents and Publications
For Applicant's Information
Disclosure Statement(Use several sheets if necessary)
Page 6 of 14

ATTY. DOCKET NO.

56104576-23

SERIAL NO.

09/887,208

APPLICANT Brendon CONLAN et al.

FILING DATE

GROUP ART UNIT
Examiner.

U.S. PATENT DOCUMENTS

EXAM. INIT.	REF. DES.	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE

FOREIGN PATENT DOCUMENTS

EXAM. INIT.	REF. DES.	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION YES/NO
	79	NO94/22904	13 October 94	Australia	A1		Yes

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

80	Corthals, G.L. et al, Electrophoresis, 1997, Vol. 18, No. 3-4, pages 317-323, "Prefractionation of Protein Samples Prior to Two-dimensional Electrophoresis".
81	Horvath, S.J. et al, Electrophoresis, 1996, Vol. 17, No. 1, pages 224-226, "Preparative Affinity Membrane Electrophoresis".
82	Corthals, G.L. et al, Electrophoresis, 1997, Vol. 17, No. 4, pages 771-775, "The Role of pH and Membrane Porosity in Preparative Electrophoresis".
83	Horvath, S.J. et al, Electrophoresis, 1995, Vol. 16, No. 1, pages 98-100, "Preparative Reflux Electrophoresis".
84	Horvath, S.J. et al, Electrophoresis, 1994, Vol. 15, No. 7, pages 968-971, "Multifunctional Apparatus for Electrokinetic Processing of Proteins".
85	Applied and Theoretical Electrophoresis, Vol. 3, No. 1, 1992, pages 13-16, C.W. Wrigley et al, "Rapid (Ten Minute) Pore-gradient Electrophoresis of Proteins and Peptides in Micrograd Gels".
86	Journal of Chromatography, Vol. 773, No. 1-2, 1997, pages 229-309, G.L. Corthals et al, "Purification by Reflex Electrophoresis of Whey Proteins and of a Recombinant Protein Expressed in Dictyostelium Discoideum".
87	Separation Science and Technology, Vol. 27, No. 1, 1992, pages 11-27, J.L. Schmidt et al, "Electrophoresis along a Semipermeable Membrane Surface".

EXAMINER

DATE CONSIDERED

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Page 7 of 14

Form PTO-1449 (modified)	ATTY. DOCKET NO.	SERIAL NO.
List of Patents and Publications For Applicant's Information Disclosure Statement (Use several sheets if necessary)	56104576-23	09/887,208
APPLICANT Brendon CONLAN et al.		
FILING DATE		GROUP ART UNIT Examiner:

U.S. PATENT DOCUMENTS

EXAM. INIT.	REF. DES.	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE

FOREIGN PATENT DOCUMENTS

EXAM. INIT.	REF. DES.	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION YES/NO

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

88	Biotechnology and Bioengineering, Vol. 30, No. 1, 1987, pages 123-137, C. Mullon et al, "Forced-flow Electrophoresis of Proteins and Viruses".
89	Journal of Chromatography, Vol. 707, No. 1, 1995, pages 77-85, K.D. Cole et al, "Free-solution Electrophoresis of Proteins in an Improved Density Gradient Column and by Capillary Electrophoresis".

EXAMINER	DATE CONSIDERED
<i>A. Phasq</i>	9/23/04

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Information Disclosure Statement--PTO-1449 (Modified)

Page 9 of 14

Form PTO-1449 INFORMATION DISCLOSURE CITATION IN AN APPLICATION	Attorney Docket No. 56104576-23	Serial No.: 09/887,208
Applicant: Brendon Conlan, et al.		
Filing Date:		Group Art Unit:

U.S. PATENT DOCUMENTS

INITIAL*		DOCUMENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE (if appropriate)
	98	5,039,386	8/13/91	Margolis			
	99	4,746,647	5/88	Svenson			

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		DOCUMENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION? (YES/NO)
	100	94/22904	10/13/94	WO			

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

201	Corthals, G.L. et al., Electrophoresis, 1997, Vol. 18, No. 3-4, pages 317-323, "Prefractionation of Protein Samples Prior to Two-Dimensional Electrophoresis".
102	Horvath, S.V. et al., Electrophoresis, 1996, Vol. 17, No. 1, pages 224-226, "Preparative Affinity Membrane Electrophoresis".
103	International Search Report Dated 5/2/00
104	Corthals, G.L. et al., Electrophoresis, 1997, Vol. 17, No. 4, pages 771-775, "The Role of pH and Membrane Porosity in Preparative Electrophoresis".

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DATE CONSIDERED: 9/23/04

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Form PTO-1449

INFORMATION DISCLOSURE
CITATION IN AN APPLICATION

Attorney Docket No.

56104576-23

Serial No.:

09/887,208

Applicant: Brendon Conlan, et al.

Filing Date:

Group Art Unit: 1:

U.S. PATENT DOCUMENTS

INITIAL*	DOCUMENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE (if appropriate)

FOREIGN PATENT DOCUMENTS

DOCUMENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION? (YES/NO)

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

105	Horvath, S.J. et al., Electrophoresis, 1995, Vol. 16, No. 1, pages 98-100, "Preparative Reflux Electrophoresis".
106	Horvath, S.J. et al., Electrophoresis, 1994, Vol. 15, No. 7, pages 968-971, "Multifunctional Apparatus for Electrokinetic Processing of Proteins".
107	Applied and Theoretical Electrophoresis, Vol. 3, No. 1, 1992, pages 13-16, C.W. Wrigley et al, "Rapid (Ten Minute) Pore-gradient Electrophoresis of Proteins and Peptides in Micrograd Gels".

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aPhasge

DATE CONSIDERED:

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56104576-23

Application No. 09/887,208		Applicant(s) CONLAN ET AL			
Examiner Arun S. Phasge		Group Art Unit	Page 12 of 14		
U.S. PATENT DOCUMENTS					
DOCUMENT NO.	DATE	NAME	CLASS	SUBCLASS	
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	Application/Control No. 09/887,208	Applicant CONLAN ET AL
	Examiner Arun S. Phasge	Art Unit Page 13 of 14

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115	Mullon et al., " Forced-Flow Electrophoresis of Proteins and Viruses" (1987) Biotechnology and Bioengineering, Vol. XXX, Pp 123-137.			

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		Filing Date	
		First Named Inventor	CONLAN
		Art Unit	
		Examiner Name	
Sheet 14 of 14	Attorney Docket Number	56104576-23	

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	116	US- 5087338	2/11/92	PERRY	
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	119	UK 2118975A	2/16/83		
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